

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims

1. (Currently amended) A cassette comprising a plurality of cartridges for dispensing liquid drops in the range of 10-500 nanoliters therefrom, each cartridge comprising a liquid reservoir and a separate outlet member attached and adjacent to the liquid reservoir, said outlet member comprising an aperture of a size that prevents leakage of fluid liquid and through which said liquid drops can be forced by a pulse of pressurised gas.
2. (Previously presented) The cassette as claimed in claim 1 wherein at least the liquid reservoirs of said cartridges are formed integrally with one another.
3. (Previously presented) The cassette as claimed in claim 1 or 2 wherein said outlet member comprises a single aperture.
- 4-15. (Cancelled).
16. (Previously presented) The cassette as claimed in claim 1 wherein said aperture has a width of between 2 and 300 micrometers.
17. (Cancelled).
18. (Previously presented) The cassette as claimed in claim 1 wherein the or each liquid reservoir contains a quantity of liquid and is closed at one end thereof by a frangible sealing means.
19. (Cancelled).

20. (Previously presented) The cassette as claimed in claim 18 wherein said frangible sealing means comprises a foil membrane.

21. (Previously presented) The cassette as claimed in claim 18 wherein said liquid reservoir contains a nucleotide or enzyme.

22. (Previously presented) The cassette as claimed in claim 21 wherein said liquid reservoir contains an enzyme selected from a group comprising polymerase, luciferase, adenosine triphosphate (ATP) sulfurylase, and a nucleotide-degrading enzyme such as apyrase.

23. (Previously presented) A liquid dispensing apparatus comprising a cassette as claimed in claim 1 and a pressurised gas source.

24. (Currently amended) A cassette comprising a plurality of cartridges for dispensing liquid drops in the range 10-500 nanoliters therefrom, each cartridge comprising a liquid reservoir and a separate protruding nozzle attached and adjacent to the liquid reservoir, ~~through which said liquid drop can be forced by a pulse of pressurised gas applied to the liquid at the other end in order to form said drop.~~

25. (Previously presented) The cassette as claimed in claim 24 wherein each liquid reservoir contains a quantity of liquid and is closed at one end thereof by a frangible sealing means.

26. (Previously presented) The cassette as claimed in claim 25 wherein said frangible sealing means comprises a foil membrane.

27. (Previously presented) The cassette as claimed in claim 25 wherein said liquid reservoir contains a nucleotide or enzyme.

28. (Previously presented) The cassette as claimed in claim 27 wherein said liquid reservoir contains an enzyme selected from a group comprising polymerase, luciferase, adenosine triphosphate (ATP) sulfurylase, and a nucleotide-degrading enzyme such as apyrase.

29. (Previously presented) The liquid dispensing apparatus including a cassette or cartridge as claimed in claim 24 and a pressurised gas source.

30. (Previously presented) The cassette as claimed in claim 24 wherein said protruding nozzle is a capillary tube.

31. (Currently amended) The cassette as claimed in claim 24 wherein said outlet member is said protruding nozzle further comprises a disc with a central aperture.